FIG. 1 (RELATED ART)

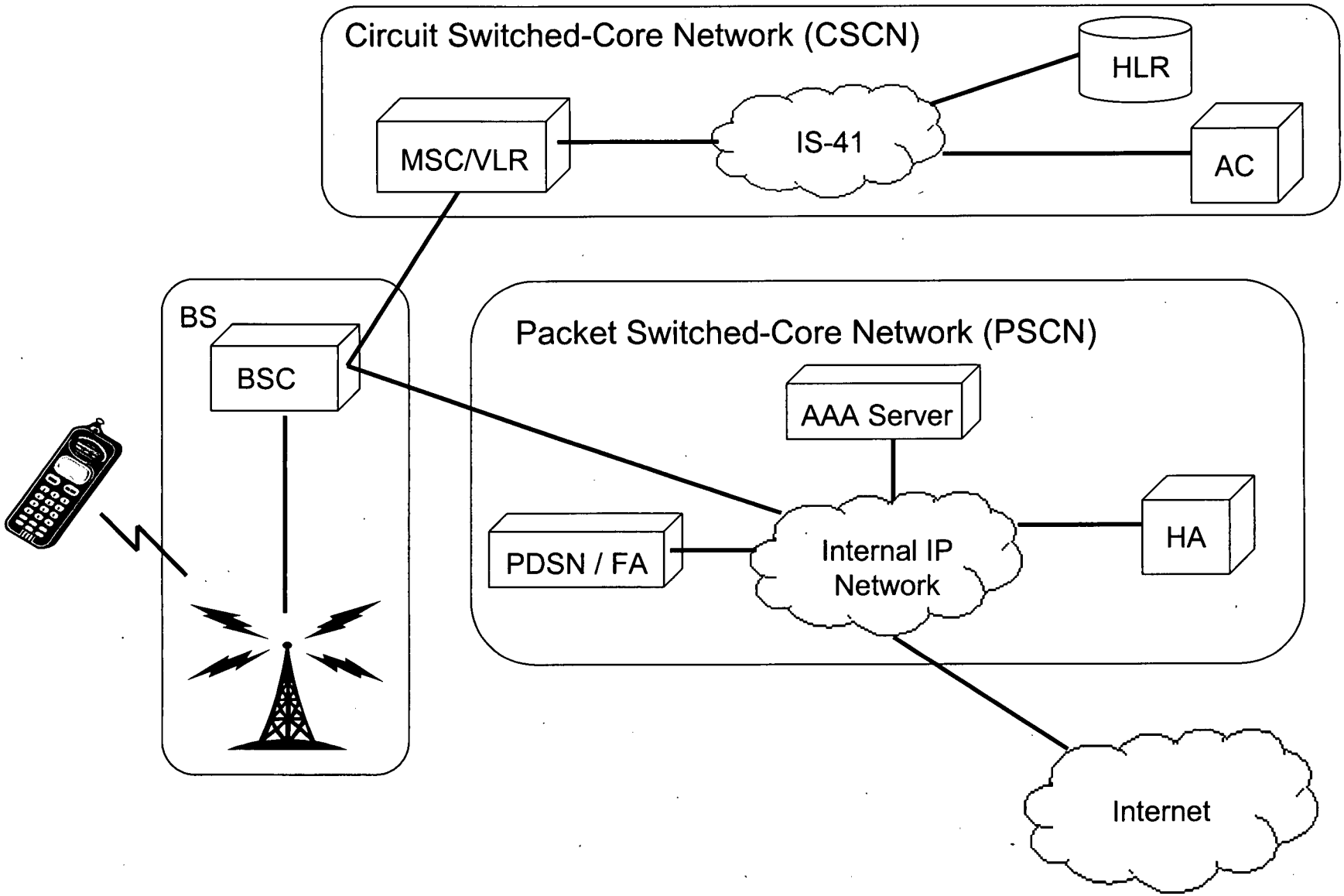


FIG. 2 (Related Art)

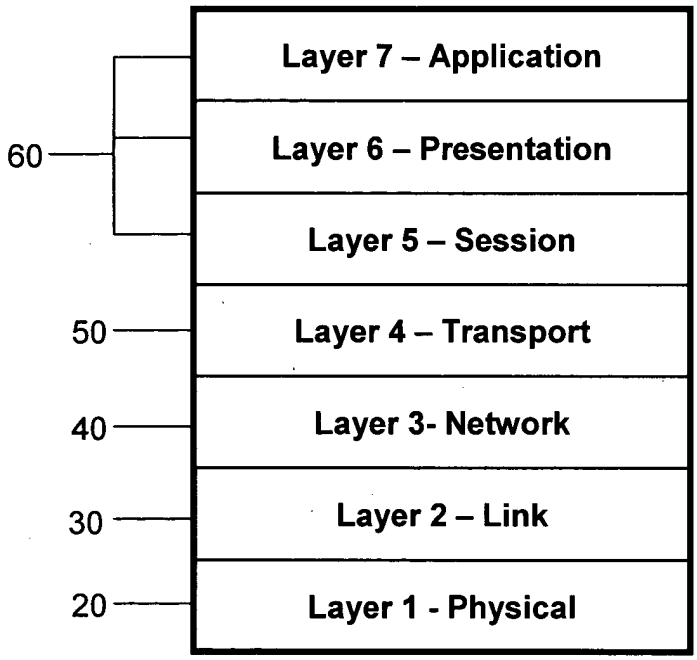


FIG. 3 (Related Art)

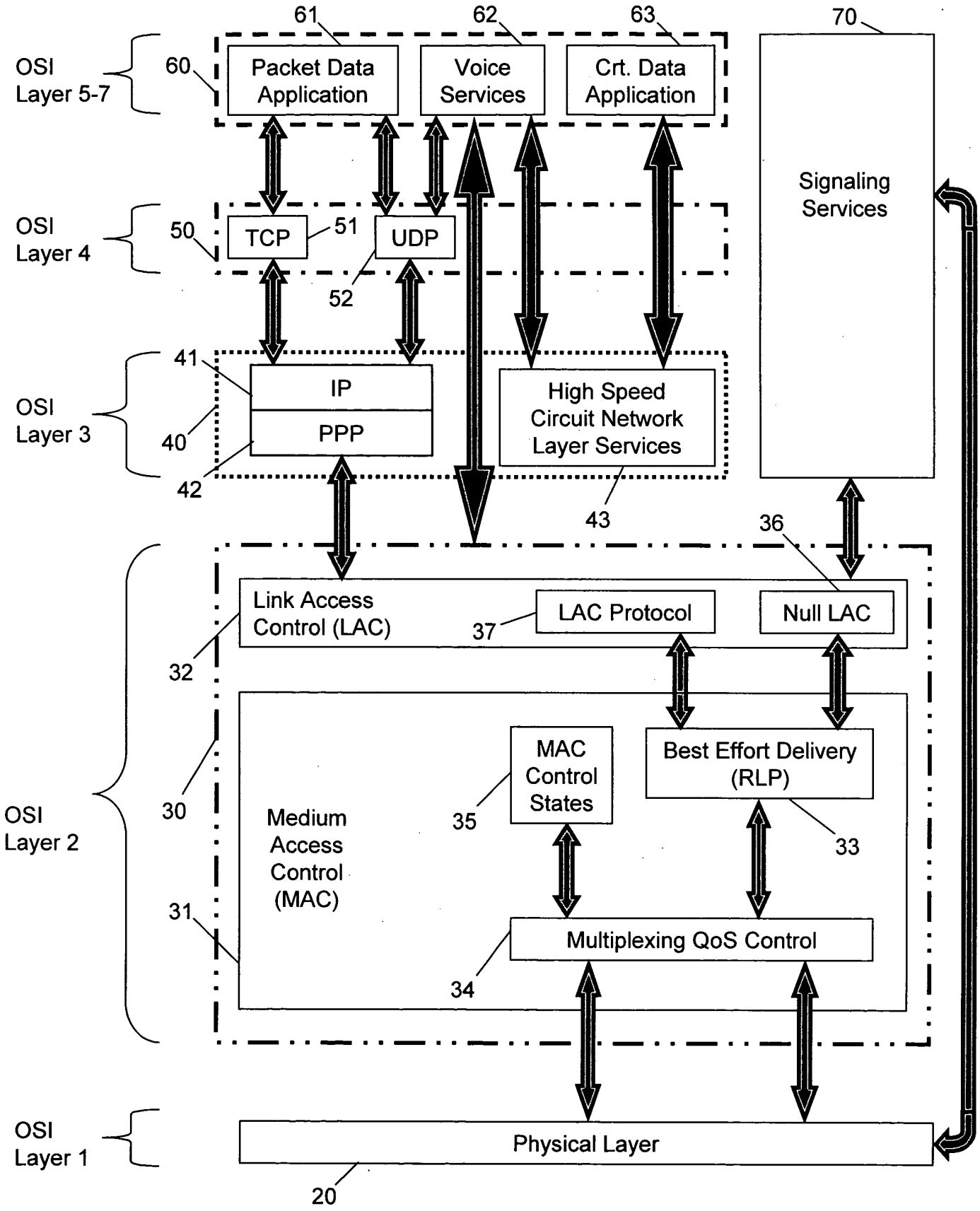
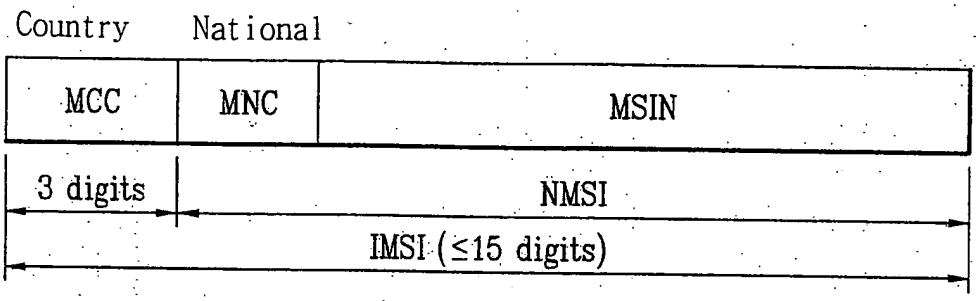


FIG. 4



MCC Mobile Country Code
MNC Mobile Network Code
MSIN Mobile Station Identifier Number
NMSI National Mobile Station Identity
IMSI International Mobile Station Identity

FIG. 5

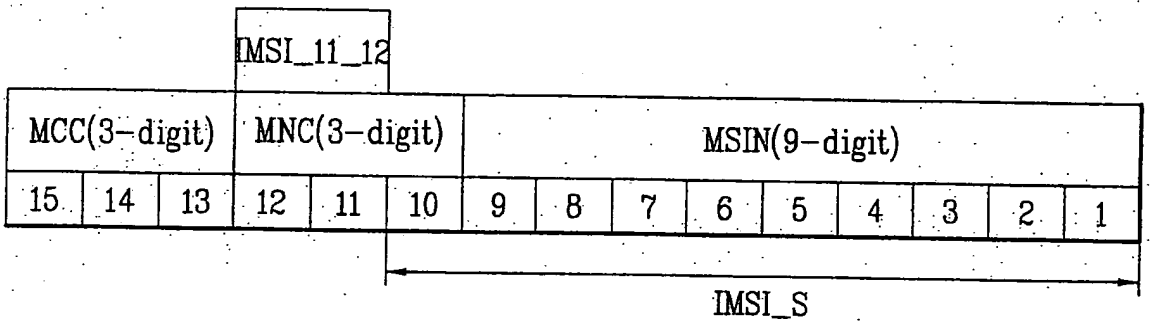


FIG. 6A

MSG_TAG: ESPM

Field	Length [bits]
PILOT_PN	9
CONFIG_MSG_SEQ	6
DELETE_FOR_TMSI	1
USE_TMSI	1
PREF_MSID_TYPE	2
MCC	10
IMSI_11_12	7
...	...
IMSI_10_INCL	1
IMSI_10	0 or 4

FIG. 6B

MSG_TAG: A41SPM

Field	Length [bits]
PILOT_PN	9
CONFIG_MSG_SEQ	6
SID	15
NID	16
...	...
IMSI_10_INCL	1
IMSI_10	0 or 4

FIG. 6C

MSG_TAG: MCRRPM

Field	Length [bits]
PILOT_PN	9
CONFIG_MSG_SEQ	6
BASE_ID	16
...	...
IMSI_10_INCL	1
IMSI_10	0 or 4

FIG. 7

Decimal Digit	Binary Number
1	0001
2	0010
3	0011
4	0100
5	0101
6	0110
7	0111
8	1000
9	1001
0	1010

FIG. 8A

MSG_TAG: ORM

Field	Length [bits]
MOB_TERM	1
SLOT_CYCLE_INDEX	3
MOB_P_REV	8
...	...
3 DIGIT_MNC_IND	1

FIG. 8B

MSG_TAG: PRM

Field	Length [bits]
MOB_TERM	1
SLOT_CYCLE_INDEX	3
MOB_P_REV	8
...	...
3 DIGIT_MNC_IND	1

FIG. 8C

MSG_TAG: RGM

Field	Length [bits]
REG_TYPE	4
SLOT_CYCLE_INDEX	3
MOB_P_REV	8
...	...
3 DIGIT_MNC_IND	1

FIG. 9

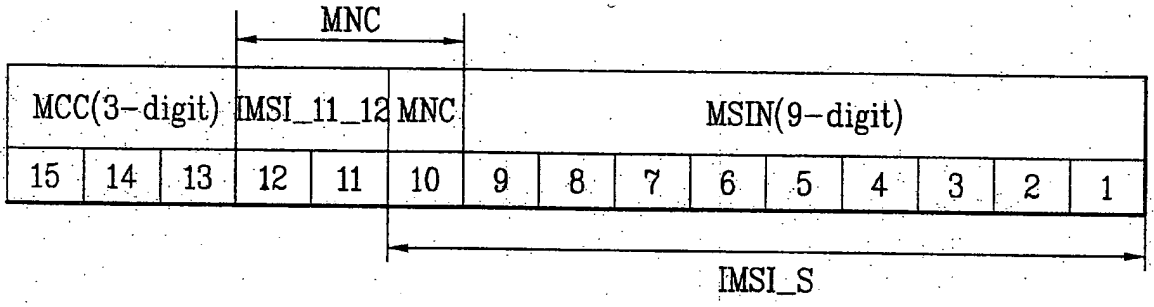
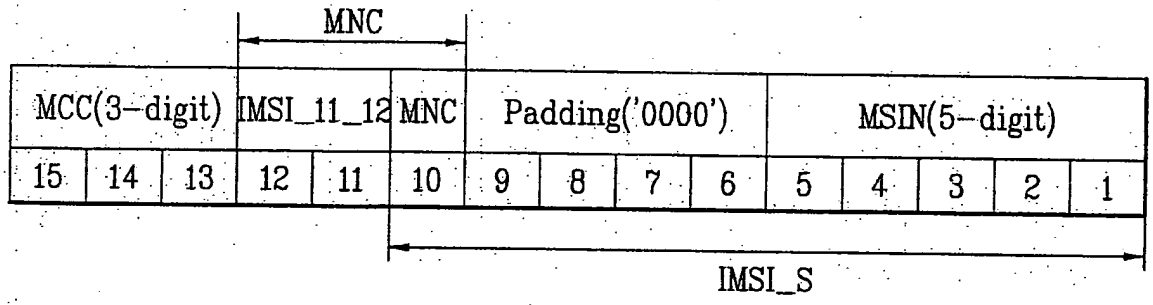

MNC
MCC(3-digit)
IMSI_11_12
MNC
MSIN(9-digit)
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
IMSI_S

FIG. 10


MNC
MCC(3-digit)
IMSI_11_12
MNC
Padding('0000')
MSIN(5-digit)
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
IMSI_S

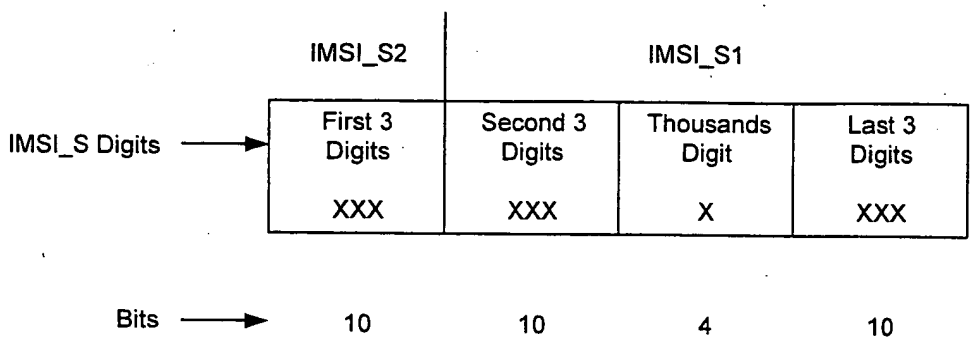
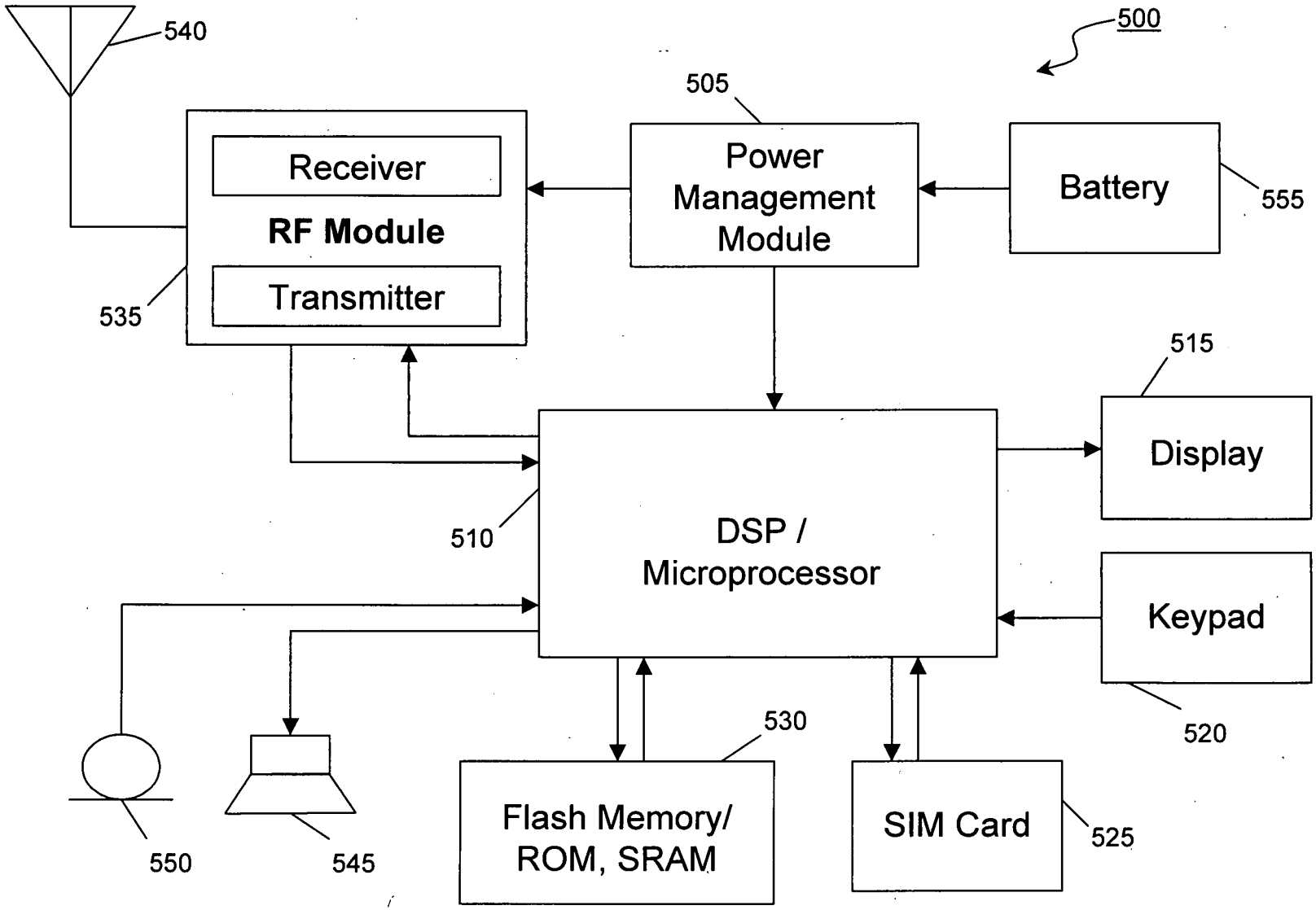

IMSI_S2
IMSI_S1
IMSI_S Digits
First 3 Digits
XXX
Second 3 Digits
XXX
Thousands Digit
X
Last 3 Digits
XXX
Bits
10
10
4
10

FIG. 11

FIG. 12


540
500
505
Receiver
RF Module
Transmitter
535
Power Management Module
Battery
555
515
Display
510
DSP / Microprocessor
Keypad
520
530
Flash Memory/ ROM, SRAM
SIM Card
525
550
545